UNE-P Economics: Revenue Impact - SBC

		Plus	Plus:	Plus	Plus	Fotal	Less	- Total
	Basic Local Service	၁၂၄	Verlical serv.	Access/Intral ATA toll	USF	Retail Revenue	d-BNO	Revenue Lost
Illinois	12 50	4 49	00 6	5 00	0.37	31.36	8 92	22.44
hdiana	12.50	5.49	00 6	5 00	0.42	32.41	17.071	15.34
Michigan	21 00	5.31	9.00	9 00	0.43	40 74	12 74	29 00
Ohio	14.25	5 35	006	5 00	0.42	34.02	14.41	19 61
Wisconsin	19 95	5 03	00 6	5 00	0.73	39.21	19 68	19.53
California	76.01	4 40	00 6	5 00	0.44	79.B1	1168	18
Connecticut	12.54	898	00'6	9:00	290	32.85	20.81	12.04
Nevada	10.75	5.26	00 6	5 00	0.54	30.55	21.17	. p
Arkansas	31.95	5 20	00 6	5.00	0.48	5163	79.91	90 55
Kansas	14.45	5.20	00 6	5 00	0.48	S 86	16.39	17.74
Missouri	16.90	5 20	00 6	5.00	0.48	36.58	19.37	17.71
()klahoma	12.28	5 20	006	5.00	0 48	31.96	18.45	
ley.as	10 94	5.20	00 6	5 00	0.48	39 63	17.41	21.73
Average/Total	14 88	4.93	9.00	\$.00	0.44	34.25	14.50	40.04
Avg Amentech	15.65	5.09	9.00	5.00	0.39	35.13	13.40	21.73
		Loop		Local Switching		Tandem switching	Shared transport	
	Urban	Suburban	Rural	per port	per MOU	per MOU	per MOU	Avg. UNE.P
throns	2 59	707	1140	5.01	unkmyted	0 0000	0.0008	8 92
Indiana	A 03	8 15	8 99	5.34	0.0034	0 0003	20000	1/0/1
Michigan	8.47	B 73	12.54	7.43	0 00 12	0 0011	0.0004	12.74
Olfrio	to s	161	6 52	€9	0.0032	0.0007	e	· ·
Wisconsin	10.90	10.90	10 90	₩ 98	0 0035	00000	0.001	19 68
California	8 83	11.27	19 63	0.88	0 0008	10000	0.0013	1.68
Commersharit	8 95	17.03	19 69	331	0 0072	0 0050	צט	20.81
Mevada	11.75	32.66	66 31	163	0 00 16	0 0018	0.0073	21 17
Arkansas	11.86	1364	23.34	191	0 00 18	0 0017	0.0004	16 57
Kansas	11.86	13.64	23.34	191	0 00 18	0 0000	0.0004	16.39
Missouri	17.71	20 71	33.79	2.06	0 0021	0 0008	0 0004	16 3.7
Оканота	12.14	13.65	76.75	2.32	0.0029	01000	กล	18.45
Texas	12.14	13.65	18 98	2.90	0.0021	0 0008	0.0001	17.91
Average	8.85	11.32	18.01	2.73	0.0018	90000	0.0008	14 50
Avg. Ameritech	6.37	8.21	10.79	4.39	0.0019	0.0006	0.0005	13.40
Avg Ameritech	5   12   12   13   5   5   5   5   5   5   5   5   5	8.21	10.79	4.39	0.0019	90000	9.000	<b>5</b> 2

#### UNE-P Economics: Revenue Impact - BellSouth

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Revenue Lost	A-3NA	Retail Revenue	∃S∩	Hot ATA JannineesooA	Vertical serv.	arc	Basic Local Service	
₹ <b>₩</b> 91	78.57	39 29	6 <b>†</b> 0	00 \$	0911	00 9	16.30	smedel/
0£ / I	69 91	33 99	6≱ 0	00 S	05.11	00 9	00.11	Florida
51 65	67.81	b b Ob	6 <b>₽</b> ′0	0015	05 11	00 9	5k / 1	eigioəD
16 95	12.15	68 14	6 <b>1</b> 0	00.8	05.11	00 9	0 8 8 1	кециску
15 22	23.08	£9 SE	6⋫0	00 \$	11 20	00 9	15 64	Ponisiana
20 23	1116	42.00	6¥ 0	00.8	05 11	00 9	10.61	iddississiy
60 21	69.81	81 9E	61/0	00.8	05.11	00 9	61 & 1	North Carolina
65 81	€₩61	38 02	6 <b>Þ</b> 0	. 00 8	0511	00 9	18 03	South Carolina
96 I I	91 Z)	\$1.2E	6₹0	00 \$	09 11	00 9	51 21	Tennessee
18.29	EA.Br	ZT9£	610	· 00°S	05.11	00'9	57.51	lsto NagstavA
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	Progeneti based?	gnidońwa mebnał	5	Local Switchin		doo 1	1	
A-BNU BVA	UOM 19q	Der MOU	UOM 19q	per port	Rural	Suburban	ուժուՄ	
78 55	\$£00 Q	\$100.0	0 0050	70 C	58 24	5172	<b>9</b> 6.51	emedelA
<del>69</del> 9t	0000 0	0 0005	8000 0	01/1	33 36	17.11	b2.74	ерној ј
6/81	2000 O	2000 0	91000	58 L	80 92	<b>11</b> 91	12 VI	Georgia
21.51	<b>₩</b> 000 0	0.0002	0 0015	6b t	1118	VE SI	95 ())	квылсьх
\$3.08	7 NOO O	8000.0	0.0021	5 <del>5</del> 2	0E 6Þ	<b>ቅ</b> በ ቅረ	50 Fi	susisino l

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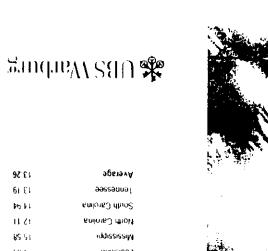
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#### UNE-P Economics: Revenue Impact - Verizon

	\$507	lstoT	snid	Snid	:snjd	snid	_		
Revenue Lost	d-3NN	Refail Revenue	- NSE	Not ATA Jaunhaes	Vertical serv	arc	Basic Local Service		
15 93	18.05	33.74	Z9 0	00.8	00 6	69 9	EVEL	Connecticut	
26.21	78 S1	31 33	25.0	9 00	00 6	78 €	87.71	DC	
15 83	16 03	31.86	75.0	00 S	00 6	00 9	67 11	916Wel9()	
52.81	58.81	10.1€	15.0	00.8	00 6	69.9	18 91	puelkiew	
Ep 61	15.61	58 D¢	29.0	9 00	00 6	00 9	10 I	New Jersey	
23 03	Se 20	₹2.6₽	75.0	00 \$	00.6	00.9	58 00	Mest Virginia	
10.11	11.51	32.18	<i>1</i> \$ 0	00 \$	00 6	00 9	1911	Pennsylvania	
16 14	10.11	33.21	<i>1</i> 5 0	2 00	00 6	00.9	<b>19</b> 21	ыпурту	
29.12	VE 51	36 95	<i>1</i> 5 0	00 9	00 6	00 9	8£ 8t	Maine	
55.33	60.51	20.16	25.0	. 00 8	00 6	00 9	58 91	sh9eurbeseM	
68.8	<b>୬</b> ۶ ዓረ	34 43	2 <b>5</b> 0	, 00 \$	00 6	00.9	98 F I	andsdoner ways	
87.61	15 33	31.62	75.0	00 9	00 6	00.9	50.11	Anolf world	
68 t	31.16	SE SE	150	. 00 5	00 6	00-9	83.61	Made Island	
23 ፈን	58.81	1.1 1 <b>C</b>	2 <b>5</b> 0	OO S	00 6	00.9	11.50	Vermont	
98.T!	01.21	35.99	<i>15</i> .0	00.2	00.6	\$6 <b>\$</b>	10.51	Average Total	
1	Shared transport	gnidoliwa mabne i		Local Switchin	(=G	doo 1			
T-BNU BVA	UOM 19q	MOM 19q	UOM 19q	per por	Rural	Suburban	ունի	* - *** **	
1802	F0	0.000	Z200 0	16.6	6961	1503	56 B	ргогранию <sub>э</sub>	
7851	\$100.0	01000	0 0030	26.1	1801	1801	18 01	00	
1091	1000 0	1000 0	8200.0	553	1991	E1 E1	70 ot	arewela()	
58.81	<b>V</b> 000 0	7000.0	0.0038	06 1	96 58	5871	11 či	puejkieją	
1921	5200 0	0 0013	0.0026	£1 0	26 01	69 b	č1 8	New Jersey	
09 92	7000 0	0 0005	\$100.0	09 1	VV EV	VO 22	to VI	Finight Row	
11.81	1000 0	8000.0	2100 O	197	00 bi	0011	57 D1	eruenjásuua, (	
10 (1	1000 0	9000.0	16000	08.1	01/62	5) 91	<b>V</b> Z 01	ыперііV	
VE 51	6000 0	0 0055	21000	¥6 O	57.81	ZVEL	pp il	Мапе	
60 51	22000	0 0015	0 0033	2 00	50.04	II NI	VS I	MassachusseM	
15.56	01000	91000	62000	531	54 06	78.51	10 10	энцѕашьким Мем	
11. (1	en 2000 c	60 2100 <b>2</b>	1100 0	15 6	1551	1811	02.2	New York	
91/16	2200 0	2100.0	75100	98 (	£1 61	WVSI	61 11	pueļšį apogg	
વક્ષા દા	9000 0	6000 0	01000	£0.1	5916	SE <b>B</b>	C1 1	Vermont	
1210	8000.0	1000.0	0.0026	96° i	91.81	12.33	PE 6	Average	

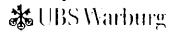




#### UNE-P Economics: Revenue Impact - Qwest

	_	Plus:	Plus:	Plus:	Plus	Total	Less	= Total
	Basic Local Service	SLC	Vertical serv.	Access/Intral ATA toll	USF	Retail Revenue	UNE-P	Revenue Lost
Anzona	13 18	6 00	8 00	5 00	0.56	32 74	28 10	464
Colorado	14 92	6.00	8 00	5 00	0.56	34 48	12 88	21 60
ldaho	14 48	6 00	8 00	5.00	0.56	34 04	22 44	11 59
lowa	1168	4 72	8 00	5 00	0.56	29 96	17-15	12.81
Minnesota	14.36	4 89	8 00	5 00	0.56	32 81	13.45	19 36
Montana	16.73	6 00	8.00	5.00	0.56	36 29	27.34	8 95
Nebraska	19 23	5 16	8 00	5 00	0 56	37.95	25.19	12 75
New Mexico	10 66	6 00	8.00	5.00	0 56	30.22	21.74	B 48
North Dakota	17.69	6.00	8 00	5 00	0.56	37.25	22.90	14 35
Oregon	13.80	6.00	8 00	5 00	0.56	33 36	20 66	12 70
South Dakota	16 65	6 00	8 00	5 00	0.56	36 21	23.54	12.67
Utah	11.03	6.00	8 00	5 00	0.56	30.59	19.45	31.14
Washington	12.50	5 92	8 00	5 00	0.56	31.98	10,72	21.26
Wyoming	23 10	6.00	8 00	5.00	0.56	42 66	28.26	14 40
Average/Total	13.75	5.75	8.00	5.00	0.56	33.06	18.33	14.73
		Loop		Local Switchin	n	Tandem switching	Shared transport	<b>/</b>

	l oop		Local Swite	:hing	Tandem switching	Shared transport	\
Urban	Suburban	Rural	per port	per MOU	per MOU	per MOU	Avg. UNE-P
18 GG	34.94	56 53	161	0 002A	0.0014	0.0009	28 10
5.91	12 31	32 79	1.86	0.0020	0 0020	0.0020	12.88
15.81	24 ()1	40 92	F34	0.0017	0.0032	0.0022	22 44
13-11	15 64	27 21	1 15	0 0007	0.0042	0.0013	17 15
8.81	12 33	2191	1.08	0 0018	0 0013	0.0015	13 45
23.10	23 90	27.13	1.58	0 0007	0.0068	0.0015	27.34
15 14	35.05	77 92	2 47	0 0007	0.0026	0.0012	25 19
17.75	20.30	26 23	1 38	0.0011	0.0016	0.0019	21.74
14.78	24 92	56 44	1 27	0.0007	0.0084	0.0044	22 90
13 95	25 20	56 21	1 26	0.0013	0 0016	0,000	<b>2</b> 0.66
17.01	18 54	24 37	1 84	0.0035	0.0017	0.0014	23.54
14.77	17.76	20 29	0 94	0.0026	0 0011	0 0009	19.45
6.41	11 35	12.76	1 34	0 0012	0.0014	0.0022	10.72
19 91	26 94	30 13	2 64	0.0038	0 00 15	0.0003	28 26
12.17	19.86	34.72	1.46	0.0017	0.0020	0.0014	18.33
	18 96 5 91 15 81 13 11 8 81 23 10 15 14 17 75 14 28 13 95 17 01 14 77 6 41 19 91	Urban         Suburban           18 96         34 94           5 91         12 31           15 81         24 01           13 11         15 64           8 81         12 33           23 10         23 90           15 14         35 05           17 75         20 30           14 78         24 92           13 95         25 70           17 01         18 54           14 77         17 76           6 41         11 35           19 91         26 94	Urban         Suburban         Rural           18 96         34 94         56 53           5 91         12 31         32 79           15 81         24 01         40 92           13 11         15 64         27 27           8 81         12 33         21 91           23 10         23 90         27 13           15 14         35 05         77 92           17 75         20 30         26 23           14 78         24 92         56 44           13 95         25 70         56 21           17 01         18 54         24 37           14 77         17 76         20 29           6 41         11 35         12 76           19 91         26 94         30 13	Urban         Suburban         Rural         per port           18.96         34.94         56.53         1.61           5.91         12.31         32.79         1.86           15.81         24.01         40.92         1.34           13.11         15.64         27.27         1.15           8.81         12.33         21.91         1.08           23.10         23.90         27.13         1.58           15.14         35.05         77.92         2.47           17.75         20.30         26.23         1.38           14.78         24.92         56.44         1.27           13.95         25.70         56.21         1.26           17.01         18.54         24.37         1.84           14.77         17.76         20.29         0.94           6.41         11.35         12.76         1.34           19.91         26.94         30.13         2.64	Urban         Suburban         Rural         per port         per MOU           18 96         34 94         56 53         1 61         0 0028           5 91         12 31         32 79         1 86         0 0020           15 81         24 01         40 92         1 34         0 0017           13 11         15 64         27 27         1 15         0 0007           8 81         12 33         21 91         1 08         0 0018           23 10         23 90         27 13         1 58         0 0007           15 14         35 05         77 92         2 47         0 0007           17 75         20 30         26 23         1 38         0 0011           14 78         24 92         56 44         1 27         0 0007           13 95         25 70         56 21         1 26         0 0013           17 01         18 54         24 37         1 84         0 0035           14 77         17 76         20 29         0 94         0 0026           6 41         11 35         12 76         1 34         0 0012           19 91         26 94         30 13         2 64         0 0038	Urban         Suburban         Rural         per port         per MOU         per MOU           18 96         34 94         56 53         1 61         0 0028         0.0014           5 91         12 31         32 79         1 86         0 0020         0 0020           15 81         24 01         40 92         4 34         0 0017         0.0032           13 11         15 64         27 27         1 15         0 0007         0.0042           8 81         12 33         21 91         1 08         0 0018         0 0013           23 10         23 90         27 13         1 58         0 0007         0.0068           15 14         35 05         77 92         2 47         0 0007         0.0026           17 75         20 30         26 23         1 38         0 0011         0 0016           14 78         24 92         56 44         1 27         0 0007         0.0084           13 95         25 70         56 21         1 26         0 0013         0 0016           17 01         18 54         24 37         1 84         0 0035         0 0017           14 77         17 76         20 29         0 94         0 0026         0 001	Urban         Suburban         Rural         per port         per MOU         per MOU         per MOU           18 96         34 94         56 53         1 61         0 0028         0.0014         0 0009           5 91         12 31         37 79         1 86         0 0020         0 0020         0 0022           15 81         24 01         40 92         1 34         0 0017         0.0032         0 0022           13 11         15 64         27 27         1 15         0 0007         0.0042         0 0013           8 81         12 33         21 91         1 08         0 0018         0 0013         0 0015           23 10         23 90         27 13         1 58         0 0007         0.0068         0 0015           15 14         35 05         77 92         2 47         0 0007         0.0068         0 0012           17 75         20 30         26 23         1 38         0 0011         0 0016         0 0019           14 78         24 92         56 44         1 27         0 0007         0.0084         0 0044           13 95         25 70         56 21         1 26         0 0013         0 0016         0 0000           17 01





#### **UNE-P** Economics: Calculating the Impact

#### 2) Estimated Average *Retail* COGS and SG&A per Line Based on Existing Wireline EBITDA Margins

- Assumes residential wireline margins are equivalent to total wireline margins

#### 3) Calculated Wholesale EBITDA Contribution

- a) Intimated average wholesale COGS and SG&A per line
  - Assume 5% avoided cost in COGS; 20% avoided cost in SG&A
- b) Compared this cost structure to revenue from wholesale UNE-P rates

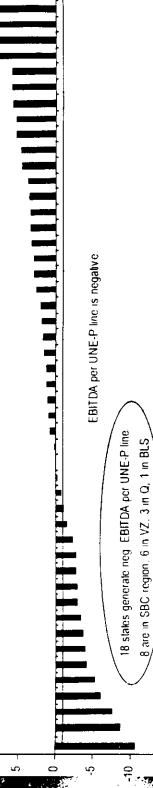
	cogs	S,G&A		% of COGS	% of S,G&A	Calculated
	(% of sales)	(% of sales)	margins	avoided	avoided	EBITDA margins
SBC	35%	25%	40%	5%	20%	-24%
VZ	31%	24%	45%	5%	20%	-4%
BLS	27%	23%	50%	5%	20%	13%



## UNE-P Economics: Calculating the Impact

## ♦ EBITDA Per Line

- SBC UNE-P Average (\$3.51) vs. Retail Average \$13.53
- BellSouth UNE-P Average \$2.47 vs. Retail Average \$18.12
- Verizon UNE-P Average (\$0.68) vs. Retail Average \$14.59
- Qwest UNE-P Average \$1.03 vs. Retail Average \$14.69



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John Hodulik, CFA (212) 713-4226, john.hodulik@ubsw.com



#### UNE-P Economics: Profitability Impact - SBC

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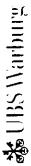
		Retail Pro	fitability		V	/holesale	Profitability					
_		Grass			COGS	Gross	S,G&A exp.		EBITOA	EBITDA Losti	FCF	FCF Losti
	cogs	Profit	S,G&A exp.	EBITDA	95% of ref-COGS	Profit	80% of ret S,G8A	EBITDA	lost	Revenue Lost	lost	Revenue Lost
Minois	10.85	20 14	7 75	12 40	10 30	-1 39	6 20	-7.5 <b>8</b>	19 98	89.0%	13 39	60%
Indiana	<b>2</b> 0	20.79	8 00	12.80	10 64	6 44	6 40	0.04	12 76	B3 2%	8.55	56%
Michigan	14 11	26.20	10 08	16 12	13 40	-0.67	8 06	8.73	24.85	88.7%	16.65	59%
Ohio	11.76	21.84	8 40	13 44	11 17	3 24	6 72	3.48	16 92	86.3%	11 34	58%
Wisconsin	13 64	25 34	9.75	15 59	12 96	6 <i>12</i>	7.80	1.08	16 67	85 3%	11.17	57%
California	10.28	19 09	7 34	11.75	977	1.91	5 87	3 96	15.71	86.6%	10.52	58%
Connecticut	11.28	20.95	8 06	12 89	10 72	10 09	6 45	3 64	9 25	76.8%	6 20	51%
Nevada	10.50	19.51	7.50	12 00	9.98	11 19	€ 00	5 19	6.87	12 1%	451	49%
Arkansas	17.90	13.25	12.79	20 46	17.01	0 44	10 23	10 67	31 13	88.8%	20.86	5 59%
Kansas	11.78	21.87	8 4 1	13 46	11 19	5 70	6 73	1.53	14 99	84.5%	10.0	5/%
Missouri	12.64	2147	9.03	14 44	12 00	7.36	7 22	0 14	14.30	83.1%	9.58	56%
Oklahoma	11 02	20.46	7.87	12 59	10 47	7.98	6 30	1 68	10.91	80.7%	7.31	54%
Texas	13.70	25.45	9 / 9	15 66	13 02	4 89	7 83	2 94	18 60	85.6%	12 40	5/%
Average/Total	11.83	21.98	8.45	13 53	11.24	3.25	6.76	-3.51	17.04	85.7%	11.4	58%
Avg. Ameritech	12.16	77.58	8.69	13.90	11.55	1.85	6.95	-5.10	18.99	87.4%	12.7	59%



# UNE-P Economics: Profitability Impact - BellSouth

i		Retail Prof	Profitability	1	\$	hotesale	Wholesale Profitability				:	
ſ		Gross			. S900	Gross	S,G&A exp.		EBITOA	EBITDA Lost/	5	FCF Lost
, market	S900	Profit	S.G&A exp.	EBITOA	95% of ret COGS	Profit	80% of ret 5,G&A	EBITDA	lost	Revenue Lost	lost	Revenue Lost
Alabania	<b>W</b> 48	28.32	8.92	19.40	9.95	12 86	7 14	5.73	13.67	83.0%	9 04	55%
Flonda	904	24.46	111	16 75	8 59 1	8 10	6 16	1 93	14.82	856%	97.6	21%
Georgia	10 79	29.16	61.6	19 98	10.25	8.55	7.35	1.20	18 /8	86.8%	12.41	21%
Kentucky	11 ()4	79.86	9.41	20.45	10.49	4 63	7.53	2 89	23.34	88 9%	15.43	%,5/5
Coursiana	9.49	25.65	8 08	17.57	106	14 06	6 47	7 60	166	79.4%	6 59	%.25
Mississippi	11.21	0£ Nr	9.55	9/ 02	10.65	11 12	7.64	3.48	17.71	85 4%	11.43	%95
North Carolina	9.64	26.05	8.21	17.85	9 15	9.54	657	267	14.87	85 1%	983	%95
South Carolina	10.13	27.40	863	18 77	9 63	9 80	169	2.89	15.87	85.4%	10.49	%9\$
ลีกรร <b>จ</b> เกตอีโ	9.36	25.29	161	17.33	8 89	8 79	6.38	191	15 41	85.8%	10 18	21%
Average/Total	87.6	26 45	8 33	18 12	9.29	9.13	6.67	2.47	15.65	85 3%	10.34	







#### UNE-P Economics: Profitability Impact - Verizon



		Retail Pro	litability		W	Vholesak	Profitability			_		
		Gross			COGS	Gross	S.G&A exp.		EBITDA	EBITDA Lost	FCF	FCF Lost
	cogs	Profit	S,G&A exp.	EBITDA	95% of ref COGS	Profit	80% of ret. S,G&A	EBITDA	lost	Revenue Lost	lost	Revenue Lost
Connectical	10.77	22 B5	7 95	14 90	975	1105	6 36	4 69	10.21	78.9%	6.75	52%
DC	9 50	21.15	7 36	13 79	9.03 ,	6 84	5.88	0.96	12.84	R3 6%	8.48	55%
Delaware	<b>\$</b> \rightarrow 0	21.59	7.51	14 08	9.21	6.81	6.01	0.80	13.2B	83.9%	877	55%
Maryland	11.32	25 19	8.76	16 43	10.75	8 07	7 01	1 06	15 37	84 2%	10.15	56%
New Jersey	8.52	18 95	6 59	12 36	8 09	4 52	5.27	0.75	13 11	85.0%	8 67	56%
West Virginia	15 19	33.81	11.76	22 05	14 43	12 07	9.41	2 66	19 39	84 0%	12 A	1 56%
Pennsylvania	9.80	21.81	7.59	14 22	9 31	5.81	6 07	0 26	14 49	84 9%	9 57	56%
Virginia	10.12	22.52	7.83	14 69	961	7 45	6 27	1 19	13 50	83.6%	8 92	55%
Maine	11.27	25.08	A 72	16 36	10 70	4 64	6.98	-2 34	18 69	86.7%	12.3	57%
Massachusetts	11.42	25.43	8 84	16.58	10.85	4 24	7 08	2 84	19 42	87 0%	12.8	3 57%
New Haropstore	10.50	23 36	8.1.3	15 23	9.97	15 57	6.50	9 07	6 17	69.4%	4.08	46%
New York	447	21.42	7.45	13.97	9 14	3 19	5 96	2 77	16 74	86.8%	110	6 57%
Rhode Island	10.78	<b>24</b> ()()	8.35	15 65	10 24	17 22	6 68	10 54	5 11	64 8%	3.38	43%
Vernont	11.53	25.67	8.93	16 74	10.96	2 89	7 14	4 25	20 99	87.7%	13.8	7 58%
Average/Total	10.05	22.37	7.78	14.59	9.55	5.55	6.22	-0.68	15.26	85.3%	10.0	9 56%





#### UNE-P Economics: Profitability Impact - Qwest

_		Retail Pro	fitability		<b>y</b>	/holesale	Profitability					
		Gross			COGS	Gross	S,G&A exp.		EBITDA	EBITDA Lost	FCF	FCF LosU
	cogs	Profit	S,G&A exp.	EBITDA	95% of ret_COGS	Profit	80% of ret S,G&A	EBITDA	lost	Revenue Lost	lost	Revenue Lost
Arizona	11 26	20 92	8 05	12 87	10 70	17 40	6 44	10 97	191	41 1%	1 05	23%
Colorado	11 87	22 05	8 48	13 57	11.28	1 60	6.78	5 19	18 75	86 B%	10 31	48%
ldaho	11 72	21.76	8.37	13 39	11 13 1	11:31	6 70	4 62	8 77	75.7%	4.83	42%
lowa	10 29	19 11	7.35	11 76	9.78	7 38	5 88	1.50	10 26	80 1%	5.64	44%
Minnesota	11.29	20.96	8 06	12 90	10.72	2 72	6 45	3 7 3	16 63	85 9%	9 14	47%
Montana	12.51	23.72	8 93	14 29	11.88	15 46	7 15	8 32	5 97	66.8%	3 29	3/%
Nebraska	13 08	24.30	9.35	14 95	12 43	12 76	7.48	5 29	9.67	75.8%	5 32	47%
New Mexico	10:38	19.28	7.47	11 86	9.86	1188	5 93	5 95	591	69.8%	3 25	38%
North Dakota	12 84	23.85	9 17	14 68	12 20	10 70	7 34	3 36	11 31	78 B%	6 22	41%
Oregon	11.48	21.32	8 20	13 12	10 91	9 75	6 56	3 19	9 93	78.2%	5 46	43%
South Dakola	12.48	23.17	8 91	14 26	11.85	1169	7 13	4.56	9 70	76.6%	5 3 3	42%
Ulah	10 51	19.52	7.51	12 01	9 98	9 46	601	3 46	8 56	76 <b>8%</b>	471	42%
Washington	11 00	20.42	7.85	12 57	10 45	0.28	6 28	6 0 1	18 57	87.4%	10.22	48%
Wyoming	14.74	27.37	10 53	16 84	14 00	14 26	8 42	5 84	11 00	76.4%	6 05	42%
Average/Total	11 38	21 13	8 13	13.00	10.81	7.53	6.50	1.03	11.98	81 3%	6 59	45%



#### **UNE-P** Economics: Calculating the Impact

#### 4) Estimated Future Line Loss in Each State

- SBC: Lost 692K lines to UNE-P in 2Q, up from 358K in 1Q
  - We believe roughly half of these were in June alone
  - AT&T entered IL and OH in mid-June, CA in early August
  - We expect line loss of 1m in Q3 and 1.2m in Q4
- BellSouth: Lost 278K lines to UNE-P in 2Q, up from 239K in 1Q
  - Losing 100-120/ quarter to reseller in Florida
  - AT&T in Georgia and is likely to enter Florida as well
  - We expect line loss of 300K in Q3 and 400K in Q4
- Verizon: Lost 110K lines to UNE-P in 2Q, up from 64K in 1Q
  - AT&T increasing marketing expenditures in New York
  - Announced entry into New Jersey in September
  - Expect to enter Pennsylvania in 4Q
  - We expect line loss of 230K in Q3 and 500K in Q4

#### UNE-P Economics: UNE-P Line Projections

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175.68	979 68	616.48	SVE 95	56,532	61.270	SVE 99	575,18	557,88	960.68	56,63	0€Z 09	818,08	61,254	SBC
														Total Switched Access
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#### **UNE-P Economics: What's the Call?**

#### Downgrading the Bells (BLS, SBC and VZ)

- Expect the group to perform inline with the market over the next 12 months

Dividend yields should provide a backstop on valuations

#### **♦** Economics of UNE-P worse than expected for the Bells

- Will put additional pressure on Bell margins and earnings
- SBC and BellSouth are the most exposed

#### Line Losses Will Likely Accelerate in 2H02

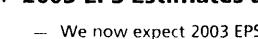
- AT&T and MCI
- -- No near-term regulatory relief expected

#### Long Distance is Only a Partial Offset

- Local revenue is much higher margin than long distance
- To breakeven on the EBITDA line, Bells need to add 5.4 long distance customers for every UNE-P line added

#### 2003 EPS Estimates are Too High

— We now expect 2003 EPS to decline 1.8%; the Street still forecasts growth UBS Warburg







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2. UBS Warburg LLC, UBS PaineWebber Inc. and/or one of their affiliates has acted as a manager/co manager or placement agent in underwriting securities of this company or one of its subsidiaries in the past three years.

57. UBS Warburg LLC is acting as co manager in underwriting securities of Verizon Wireless.



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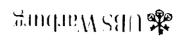
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#### UNe-P: the Un-Profit

Regulation pressuring RBOC profits



industry update

RBOCs' core profit center is under severe attack from competitive forces. Regulators have reduced UNE pricing such that CLECs are using UNE lines to penetrate the residential and small business markets. In our view, until UNE pricing becomes more rational, the RBOCs will suffer steeper profitability squeezes from CLECs using UNE lines.

- ▶ CLEC penetration rising: By the end of 2001, according to the FCC, CLECs accounted for 10.2% of the nation's 192m switched lines, up from 7.7%, 12 months earlier, a 32% increase in market share. Cable telephony lines are increasing at a slightly faster rate than overall CLEC lines. By the end of 2001, according to the FCC, cable telephone lines. constituted 11% of CLEC lines (2.2m lines), and 1% of all switched lines.
- ▶ Lost ILEC profits: ILECs lost 1.5m lines in the last six months of 2001 in the form of UNEs (unbundled network elements) to CLECs, which we estimate comes to \$1bn in lost annualized sales, most of which is pure profit. In a six-month span, then, after taxes, ILEC bottom lines lost about \$325m in net income, and \$4.2bn in market capitalization assuming a 13x P/E multiple. The Bells control about 94% of the nation's incumbent access lines, so the RBOCs, primarily through UNE, lost S4bn in market capitalization in the last half of 2001. The Bells currently have a \$220bh equity market cap, meaning that CLECs conceivably destroyed 2% of Bell equity value in the H2 2001
- ▶ Some CLEC overbuilding: In H2 01, CL⊞Cs gained 2 4m lines, which we believe was created exclusively at the expense of the ILECs, or 19,000 lines per business day. Some of these lines are lost to cable telephony or where CLECs build their own connections directly to businesses. In such cases, the CLEC has overbuilt, or completely severed the connection between the ILEC and the customer, removing the ILEC from 100% of their former revenue stream.
- Ratings: We maintain our Hold ratings on BellSouth Corp., Qwest Communications, SBC Communications and Verizon Communications

PLEASE REFER TO THE TEXT AT THE END OF THIS REPORT FOR OUR DISCLAIMER AND ALL RELEVANT DISCLOSURES. IN RESPECT OF ANY COMPENDIUM REPORT COVERING SIX OR MORE COMPANIES, ALL RELEVANT DISCLOSURES ARE AVAILABLE ON OUR WEBSITE WWW.DYXWYSSERCE.COM OR BY CONTACTING DRKW RESEARCH DEPARTMENT, 20 FENCHURCH STREET, LONDON, ECSP 3DB. Online research: www.drkwresearch.com Bloomberg, DRKW<GO>

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#### Hold

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#### Investment summary and conclusion

Regulators are forcing unprofitable resale pricing upon the local industry through LINEs.

The concern isn't the CLECs: with a weak capital market, and the techno bubble-burst, the money CLECs need to build out a local network IS NOT available in the public or bank markets. Ironically, the impact of CLEC competition has never been more NEGATIVE for RBOCs (we interchange the terms RBOCs and ILECs). Why? Because the regulators are forcing unprofitable resale pricing upon the local industry through Unbundled Network Elements, or UNEs. What are UNEs?

UNEs are network 'elements' – switching, copper lines, data base hookups, fiber trunks into office buildings, etc., that the RBOC is forced to lease to the CLEC. When a CLEC uses UNEs INSTEAD of building out its own copper loops, switches, etc., it avoids major capital expense, and 'rides' the RBOCs' investments made over decades. When sapital flowed freely to CLECs in the 1990s, CLECs took that money and decided to build their own networks. At the time that seemed to be a rational decision: money would be available from Wall Street 'forever', and an owned network would be more profitable than a leased one – eventually. Unfortunately for those CLECs that overbuilt over wide geographic territories, i.e., the "XOs" of the world that decided there was a business case for a 'national – local' infrastructure that served (in retrospect) way too many cities, thereby never achieving density – the key to local profitability – the capital markets dried up. Left, were the liquid competitors to the Bells; AT&T and MCI (until now), who, over the last two years, have taken up UNE, or leasing, rather than constructing a second local network, as the means to compete. WHY?

AT&T and MCI are very concerned about losing long distance customers to the RBOCs. So even if UNE isn't as profitable as owning your own network by being able to offer local service promptly (which UNE enables) and at a decent profit (which UNE enables), the long distance carriers can combat long distance customer defection, making THEIR foray into leasing local services more profitable by avoiding lost long distance revenues, than an "XO" could have

- ► Hence, the recent rapid entry into long distance by the RBOCs has been accompanied by a rapid expansion of the use of UNEs by CLECs, principally AT&T and MC!
- ▶ States rule over the Feds on local telephony. States have been widening the UNE discount to the detriment of the RBOCs as a guid pro quo to RBOC long distance entry. Local profit margins are much fatter (45%) than long distance margins (25%), so the current trade-off is a loser for the RBOCs.



The discount has caused much more tapid OLEO UNE use. This was seen most recently ruled that SEO DRA PUC has recently ruled that SEO DRA provide long distance (SEO Still must about at the FOO). In the case of A.A. A provide long distance SEO PEC SEC was able to get into long distance.

A Table distance causing a timing-engendered loss as well:

Which regulators? Well, first the FCC, which took the 1996 Act that did not specify particular UNEs or what pince they should be made available at. The last FCC made a long list of UNEs and set severe discount 'trameworks' to those UNEs. Then the states got into the act by setting the actual UNE rate, i.e., the discount from retail rates offered to an RBOC's customers. These discounts can be as high as  $65^{\circ}$ , At the margin, such revenue loss, accompanied by continued network costs, results in almost one-for-one profit loss. At the UNE is highly profit-destructive.

The only saving grace is that MCI has serious financial difficulties, and could be forced to abandon its UNE expansion program – to the Bells benefit, in addition, AT&T, which is in much better financial shape, and can, we estimate, survive on its own for years, ould be bought out by a Bell if the current telecom melidown continues. In other words, the regulators – the FCC and DOJ – may allow the oligopolization of the telecom industry, where there are three to four vertically and horizontally integrated providers. That is three to four oid Ma Bells.

For investors we believe that the Bells are trading near historically low multiples of EBITDA, which is the most important barometer of value, in our view. However, UNE is, at the margin, so value destructive, that we would be HOLDERs, if and until the regulators become more realistic. And if they don't, shareholders might be rewarded by a severe downsizing of MCI and/or absorption of AT&T by a Bell, rewarded by a severe downsizing of MCI and/or absorption of AT&T by a Bell.

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### "The cream skim" – business, population density and demographics

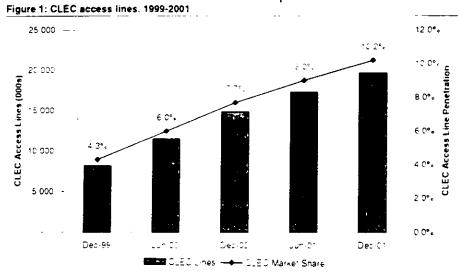
The current competitive policies favor rich residential customers, large businesses and states with greater population density.

45 of CLEC lines served residential and small business markets

According to the FCC, 55% of CLEC lines served medium and large businesses and government customers. In contrast, just 23% of ILEC lines served such customers. Conversely, 45% of CLEC lines served residential and small business markets, while over 75% of Bell lines served lower profit residential and small business lines. Businesses and government offices are more densely packed, and spend more per access line than residents.

Thus, the ILECs are left holding the 'bag' — serving more of the costly (read: geographically dispersed) and lower paying line base. We view the 'cream skim' as one of the most compelling arguments that local competition regulation is destructive and illogical.

#### Year-end 2001E CLEC line composition



Source FCC

23 JUN 2002



The goal of the 1996 Act was to create the environment for local competition, not create local competition.

#### Overbuild: 33%, but in key sectors much lower

Of the 33% overbuild percentage, we estimate that under 5% of residential lines are overbuilt lines. We believe this is a telling statistic and perhaps the most important in this report. In the US at year-end 2001, there were 134m residential and small business access lines. The majority of overbuilt lines are business lines, with a concentration on medium and large sized businesses. Our view is that the current rules forcing RBOCs to resell local lines to CLECs at very deep discounts are off course. The goal of the 1996 Act was to create the environment for local competition, not create local competition. Although seemingly subtle, this is a huge distinction. The idea is that to produce new, exciting services and pricing programs requires a competitor to provide new, exciting services. How can that occur if the CLEC is reselling the RBOCs' service? With only a 33% overbuilding rate, the desired outcome of the Act is unaccomplished. The idea was to give the CLECs a means to build customer scale upon which they could then justify building their own network. since this is an industry of scale. In point of fact, the growth in UNE lines is accelerating; despite the fact that the base of CLEC customers is also expanding. With UNE, the CLECs are merely behaving as rational decision makers. If it's cheaper and less risky to resell rather than build, then resell is the answer. Unlike the long distance industry, which is less of a natural monopoly since it takes just severalbh dollars and two to three years to build a national network, except for the cream of the business market and the cream, i.e., demographically desirable (read; rich homeowners who can buy many services) residential market, a new national local network is unlikely to emerge. We won't get into "what ifs," but under a more rational local competitive framework, overbuilding might have occurred to a greater extent.

#### Sinking the sunk costs

Cable telephony penetration is increasing even faster than overall CLEC penetration.

Overbuilding erases any revenue contribution from former customers or prospective customers that would have used a Bet if an overbuilding CLEC wasn't around. It fully istrands the lines assets. The business base is easier to overbuild because they are located in office buildings and otherwise packed more densely. So the 'cream skim' has been accompanied by the loverbuild. That is, for years, CLECs such as Time Warner Communications, AT&T Business and WorldCom's MFS (although we believe one of WCOM's downfall was its inability to leverage the MCI long distance base and 'backsell' an MFS local product into it have been building their own trunks into business locations, either fully bypassing the ILEC, or perhaps renting minimal network subsegments such as the last link into a building. Now, cable telephony is copying the CLECs on the residential side. By piggybacking onto the cable television network, they found an economical way to overpuild the less dense residential base, a danger to the Bells that have concerned us for some time. FCC statistics show cable telephony penetration increasing even faster than overall CLEC penetration, and AT&T Broadband reported in Q2 02 that, for the first time, its cable telephony operations are EBITDA-positive, validation that a means to 'crack' the natural monopoly in the local residential market exists. It still takes a lot longer to deploy a cable telephony line than a UNE line. Thus, cable telephony is probably impacting residential lines' margins, but not taking significant market share yet

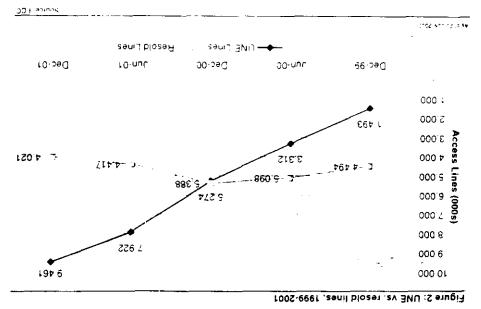


The bostom time is that competition comes in two flavors, resecuing the FBOCs institution or overbuilding. The Bells argue that low UNE rates which can force an FBOC to resell a local line to a CLEC such as MCI. "Neighborhood" for as much as 70% offices office in the second some revenue across a mgh "kea cetail, aren't so bad because they at least provide some revenue across a mgh "kea cost structure. Also, since the line is deployed already (sunk cost), and only minimal cash is required to operate that line, an FBOC would select UNE to overbuilding as the business and residential ends of the local market, we expect that the value of the business and residential ends of the local market, we expect that the value of the ABOCs plant, the overbuilding is concentrating in the large business arenas and will occur for plant that serves large businesses, not the residential market.

#### Resale: 22%, down from 43% two years earlier.

Resale is uneconomical for CLECs, so they are dropping resale lines or changing them to a UNE-P "lines" regime, which are functionally equivalent, but add 20%-40% points of gross margin to a CLEC.

OVE-P lines add 20 -40 Overs of gross margin to a



UNE: 47% (24% at YE 1999) - erased 2% of bell equity?

The UNE pisition is growing rapidly in use. To the CLEC the only difference between reselling and UNEs is the cost. In fact, UNE is nothing more than resale with 2-3x the discount, which comes to a 35%-60% discount, UNE-P has made it possible for AT&T and MCI to compete in the residential arens. Because it is too costly to build out less dense residential networks. UNE-P resale (and cable telephony overbuilding) are being used to penetrate the residential and small business market. According to the PCC. CLECs served 4.6% of those markets at the end of 2000, and 6.6% of such markets by year-end 2001. There were 9.5m UNE loops at year-end 2001, up from markets by year-end 2001. There were 9.5m UNE loops at year-end 2001, up the markets and the rest (3.7m) were UNE loops where the CLEC just leases the switching, and the rest (3.7m) were UNE loops where the CLEC just leases the

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copper loop, and provides the local wholesale scheme. However, UNE loop sales should revenue loss under the local wholesale scheme. However, UNE loop sales should

LECs lost 1.5m lines in the last six months of 2007 in the form of UNEs 12 0.12.3s, which we estimate comes to 51bn in lost annualized sales, most of which is pure profit in a six-month span, then, after taxes, ILEC bottom lines lost about 5325m in net income, and 54.2bn in market capitalization, assuming a 13x P/E multiple. The Bells control about 94% of the nation's incumbent access lines, so the RBOCs, primanly through UNE, lost 54bn in market capitalization in the last half of 2001. The Bells currently have a 5220bn equity market cap, meaning that CLECs conceivably currently have a 5220bn equity market cap, meaning that CLECs conceivably are reasonable and that the market actually "made" this observation and factored it into atock prices. There's no assurance RBOC stocks didn't decline due to other reasons, and that the UNE-P issue has yet to be factored into the stocks.

#### Case study: AT&T UNEs

ameliorate, in our view.

AT&T's new senior management states that the UNE-P platform is expected to be as successful in penetrating the business market as it has been in the residential market. Today, T has some 3.2m local lines, of which 500,000, or 15°s, are UNE-P-based. That percentage will increase We estimate that the UNE-P platform will be instrumental in enabling AT&T to reach its goal of \$10bn in annual business local revenues in five years. Note: it takes T about two years for UNE-P, on its own, to breakeven, excluding the positive impacts of bundling long distance with UNE-P.

#### system: From a macroeconomic point of view there are several concerns with the UNE-P

- ► It's a policy-stimulated transfer of wealth (from shareholders and employees to consumers), rather than being left to market forces.
- In the longer-term, it could tob consumers of advanced services that require the ABOCs' plentiful cash flow to fund
- system

  System

  System

UNE is a creation of the prior ECC administration. Only network elements such as switching, local loop costs and other various network elements were required under the 1996 Act to be sold at reasonable discounts to the CLEC. The FCC decided that to be the retail price charged by the Belli less avoidable costs such as selling costs to be the retail price charged by the Belli less avoidable costs such as selling costs. That was interpreted to mean a  $20^{\circ}e^{-25^{\circ}e}$  discount to retail. However, the CLECs diann't have any margin left over for a profit. We're not sure, however, that profit was interpreted to mean a  $20^{\circ}e^{-25^{\circ}e}$  discount to retail. However, the CLECs diann't have any margin left over for a profit. We're not sure, however, that profit was required by the Act. At the end of the day, the spirit of the Act was to deliver a profit. We're not sure, however, that profit was required by the Act. At the end of the day, the spirit of the Act was to deliver a profit.

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mechanism to allow competitors to build up a large enough DNE elements or resale to  $7 \pm E N$  justify building their own hetwork.

#### Regulators forgot to notice that wireless is local competition, too

In its July 2002 Local Telephone Competition report, the FCC reported that CS miles July 2002 Local Telephone Competition report, the FCC reported the miles subscribers increased from 79.7m at year-end 1999 to 122 4m by year-end 2001, or a 23.9% CAGA. With wireless carriers offering big bucket minute plans including features like Caller ID and free roaming, wireless phones are replacing landlines for many consumers. As wireless companies continue to build out their networks and improve service quality, wireless displacement will increasingly displace.

Wireless displacement is not only affecting primary access lines, but is having a devastating effect on RBOC second lines. Second line growth for the RBOCs is declining rapidly, primarily as a result of wireless displacement of these second lines. For example, BLS reported a Q2 02 second line YoY growth decline of 10.6%, while SBC's second lines declined 8.7%, YoY in Q2 02. Historically, second lines have increased as much as 15%-20% YoY, and just two quarters ago we estimate that the RBOCs combined for 17m second lines at year-end 2001, and each second line generates \$5 combined for 17m second lines at year-end 2001, and each second line generates \$5 per month with a 65% EBITDA margin, then \$633m of EBITDA was generated from per month with a 65% EBITDA margin, then \$633m of EBITDA was generated from per month with a 65% EBITDA margin, then \$633m of EBITDA was generated by

End result

10% per year, primarily due to wireless displacement.

#### End a court 51.4bn decline over last year Figure 3: RBOC local wreline

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Wireless displacement is not

Dresdner Kielnwort Wasserstein



Regulators have moved to an active stance to redesign the industry

#### Regulators hurting consumers in long run

The combination of very effective lobbying on the part of small and large (read AT&T CLECs, and a democratic FCC (thought to be friendly to long distance and CLECs, not RBOCs) prodded the FCC to create the UNE-Platform, or UNE-P. The FCC decided that UNEs should be priced at a theoretical level, that is, what would it cost for a brand new local network to add an access line. The assumptions include state-of-the-art networks throughout, and perfect capital and man-hour deployments. In other words, we believe these are imaginary, non-historic; therefore, in our opinion, this is an unreasonable way to regulate an industry. Another related issue is that of regulation altogether, in the 10 years of covering this industry, regulators have, in our view, taken an exponentially more involved role in the "day-to-day" decisions about pricing. mergers, service offerings, inter-carrier relationships, etc. than before the 1996 Act. It wasn't supposed to turn out that way. Regulators have moved to an active stance to redesign the industry, from a passive stance where carriers knew the rules and operated freely within them. They knew what their returns would be, and didn't have to make the very risky types of investments RBOCs have made in the past few years to compensate for the loss of growth in the core business that has destroyed shareholder value. On top of that the regulators have had the nerve to regulate the newer high-risk capital return projects such as DSL. Now every carrier move is scrutinized by a state or FCC hearing, slowing gown the communications revolution of the late 1990s. In the short run, the consumer wins with these artificially lowered local rates. In the long term, the consumer will suffer as ILECs cut their capital budgets by 30%, which will produce fewer services, more network outages, and crummier customer service. The regulators don't understand that the local industry, unlike the long distance industry, is the closest thing in telecoms to a "natural" monopoly. Wireless, long distance and undersea networks cost less per DS-0 to build, and are constructed in a matter of months or a year or two, not the many years it takes to build a local landline network

Figure 4. Dresdner Kleinwort Wasserstein RBOCs earnings universe

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